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Rancho Cordova, CA 95670
916-861-0400 TEL
916-861-0430 FAX

January 23, 2006

Mr. Mark Verhey
Humboldt County Department of Public Health
100 H Street
Eureka, California 95501

RE: **Quarterly Status and Remediation Summary Report – Fourth Quarter 2005**
SECOR Project No.: 77CP.60009.01.1106

Dear Mr. Verhey:

On behalf of ConocoPhillips, SECOR International Incorporated is forwarding the quarterly summary report for the following location:

<u>Service Station</u>	<u>Location</u>
Former 76 Service Station No. 01106 LOP # 12698	1693 Central Avenue, McKinleyville, California

If you have questions or comments regarding this quarterly summary report, please do not hesitate to contact me at (916) 861-0400.

Sincerely,
SECOR International Incorporated

A handwritten signature in black ink, appearing to read "Thomas M. Potter".

Thomas M. Potter
Project Scientist

Attachment: SECOR's *Quarterly Status and Remediation Summary Report – Fourth Quarter 2005*

cc: Mr. Thomas Kosel, ConocoPhillips

Mr. Mark Verhey
January 23, 2006
Page 2

**QUARTERLY STATUS AND REMEDIATION REPORT
FOURTH QUARTER 2005**

Former 76 Station No. 01106
LOP #12698
1693 Central Avenue
McKinleyville, California

City/County ID #: McKinleyville
County: Humboldt

SITE DESCRIPTION

The subject site is located on the corner of Central Avenue and Sutter Road in McKinleyville, California. The site operated as retail service station from 1982 until 1999. Currently, a retail drive up espresso kiosk is located at the site.

PREVIOUS ASSESSMENT

In 1999, Tosco Marketing Company (now ConocoPhillips) removed three 10,000-gallon gasoline underground storage tanks (USTs) and associated piping and dispensers. Results of laboratory analyses of samples collected during the work indicated that hydrocarbons were present in soil and groundwater beneath the site.

In February 2000, at the request of Tosco, Environmental Resolutions Inc. (ERI) performed a soil and groundwater investigation including the installation of four on-site groundwater monitoring wells (MW-1 through MW-4) and one on-site boring. Results of laboratory analyses of soil samples collected during the investigation indicated that hydrocarbons were not present in soil at concentrations at or above laboratory reporting limits. Based on this data, the area of affected soil at the site is delineated. The results of laboratory analyses of groundwater samples indicated that dissolved hydrocarbons were present in groundwater: affected groundwater was not delineated at the site.

In October 2000, ERI installed one on-site and four off-site groundwater monitoring wells (MW-5 through MW-9).

In February 2003, ERI submitted a corrective Action Plan (CAP) recommending the installation of an ozone microsparge system.

In May 2003, sparge wells AS-1 through AS-7 were installed at the site.

In October 2003, a remedial system design utilizing ozone microsparging was prepared.



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In January 2004, an ozone injection system was installed at the site by Miller Brooks Environmental, Inc., with SECOR performing operations and maintenance activities. The ozone injection system consists of a panel mounted KVA C-Sparge™ System that produces 4 grams per hour (0.009 pounds per hour) of ozone. The system injects to seven ozone sparge wells (AS-1 through AS-7).

SENSITIVE RECEPTORS

In October 2000, ERI performed an underground utility survey, and performed a door-to-door groundwater receptor survey within a 1,100-foot radius of the site. The door-to-door groundwater receptor survey revealed seven potential groundwater receptors, all of which are water supply wells. Four of these wells were reported as inactive, one well was reported as active, and the status of the remaining two wells is unknown. Detailed well information such as well use, total depth, and perforated screen interval was not available. According to ERI the closest active well to the site is located approximately 1,100 feet southwest (crossgradient) of the site. The door-to-door groundwater receptor survey did not reveal any basements with groundwater sumps, surface water bodies, or other potential groundwater receptors.

MONITORING AND SAMPLING

The site has been monitored and sampled since the first quarter 2000. Between the first Quarter 2000 and the present, monitoring and sampling has been conducted quarterly. Currently, seven wells (MW-1 through MW-3, MW-5 through MW-7, and MW-9) are sampled quarterly. MW-4 and MW-8 are sampled semiannually. Samples are analyzed for total petroleum hydrocarbons as gasoline (TPHg), and benzene, toluene, ethylbenzene, and total xylenes (BTEX). Additionally, samples are analyzed for nitrate, sulfate, carbon dioxide, ferrous iron, methane, alkalinity, manganese, biochemical oxygen demand, and chemical oxygen demand. Results are discussed below and are summarized in TRC's *Quarterly Monitoring Report, October through December 2005* dated December 21, 2005 (Attachment 1).

DISCUSSION

During the Fourth Quarter 2005, depth to groundwater ranged between 9.04 and 13.5 feet bgs, which was in the range of historical levels. The direction of groundwater flow was toward the northwest at a gradient of 0.02 foot per foot (ft/ft).

Evaluation of dissolved concentrations through the fourth quarter 2005 indicates that the highest concentrations of residual petroleum hydrocarbons and MtBE continue to be detected in on-site well MW-2. During fourth quarter 2005, TPHg and MtBE were detected at maximum concentrations of 920 µg/L and 660 µg/L, respectively, in the groundwater sample collected from MW-2. These concentrations have reduced significantly from concentrations reported during the third quarter. Concentrations of TPHg and MtBE have

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fluctuated within historical levels over the past sixteen quarters, but have generally decreased over time. The dissolved plume remains defined by the existing monitoring well network.

The existing ozone sparge (OS) well network appears to be successfully remediating hydrocarbons dissolved in the groundwater downgradient of the former USTs. Remaining TPHg, benzene, and MtBE continue to be present in groundwater at MW-2 at concentrations greater than water quality requirements. Due to the system being down since September, reported concentrations of TPHg increased to 6,800 µg/L and then decreased to 920 µg/L during the fourth quarter. Environ Strategy Consultant, Inc. (ES) will continue to operate and Secor will evaluate the effectiveness of the OS system during the first quarter 2006.

CHARACTERIZATION STATUS

Contamination in soil and groundwater has been adequately delineated.

REMEDIAL PERFORMANCE SUMMARY

Ozone Injection Operation

The ozone injection system consists of a wall mounted KVA C-Sparge™ System, model 5020, that produces up to 4 grams per hour (0.009 pounds per hour) of ozone. The system is programmed to inject to each well for ten minutes, cycling eighteen times per day resulting in 87.5 percent operation. During the fourth quarter, the ozone injection system was not operational. During the third quarter, the ozone injection system was operational for 15 percent of the programmed runtime, resulting in 264 hours of operation and approximately 2.4 pounds of ozone injection. On July 15 and August 11, 2005, the system was found to be non-operational due to a tripped 16 amp breaker. The breaker was reset and the system was restarted on the July 15 visit. During the August 11 visit, the 16 amp breaker was replaced with a 15 amp time delay fuse. A new compressor was also installed and the primary power wires were replaced. The system was found to be operational upon the next site visit on August 18, 2005. On September 9, 2005, it was discovered that the business that supplied the remediation system with its power had closed for business and PG&E had shut the power off. ConocoPhillips is in the process of getting dedicated power for the remedial system from PG&E. Cumulatively, the ozone injection system has operated for 5,467 hours and has injected a total of approximately 49.2 pounds of ozone into the subsurface. Table 1 presents the operating data for the ozone injection system and includes operating hours and pressure readings. Field data sheets are included in Attachment 2.

Monthly Groundwater Sampling

Previously, monthly groundwater samples were collected from monitoring wells MW-2 and MW-4 and analyzed for TPHg, BTEX, and MtBE. Monthly sampling was discontinued at the request of ConocoPhillips after the July 2005 sampling event. Results of the monthly

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groundwater sampling events are summarized in Table 2. In addition to the monthly groundwater samples collected for laboratory analysis, oxidation reduction potential (ORP) and dissolved oxygen (DO) measurements were also collected monthly. The ORP and DO data are included in Table 2. A site plan is included as Figure 1 and concentration versus time graphs for dissolved TPHg, benzene, and MtBE in monitoring wells MW-2 and MW-4 are provided as Figure 2 and Figure 3, respectively. Certified laboratory analytical reports and chain-of-custody documentation for the groundwater monitoring events conducted during the current quarter are provided in Attachment 3.

WASTE DISPOSAL

The volume of purged groundwater generated and disposed of during the quarterly groundwater monitoring event is documented in TRC's *Quarterly Monitoring Report, October through December 2005* dated December 21, 2005 (Attachment 1).

RECENT SUBMITTALS/CORRESPONDENCE

Submitted – *Quarterly Status and Remediation Summary Report – Third Quarter 2005*, dated November 2, 2005.

THIS QUARTER ACTIVITIES (Fourth Quarter 2005)

1. TRC performed quarterly groundwater monitoring and sampling.
2. SECOR performed operation and maintenance of the ozone system.
3. SECOR prepared and submitted the third quarter 2005 quarterly summary and quarterly remedial performance summary report.

NEXT QUARTER ACTIVITIES (First Quarter 2006)

1. TRC will conduct quarterly groundwater monitoring and sampling.
2. ES will continue operation and maintenance of the ozone system.
3. SECOR will prepare and submit quarterly summary report and attach ES's quarterly Remedial Performances summary.
4. SECOR will continue efforts with PG&E to restore power for the ozone generation system.

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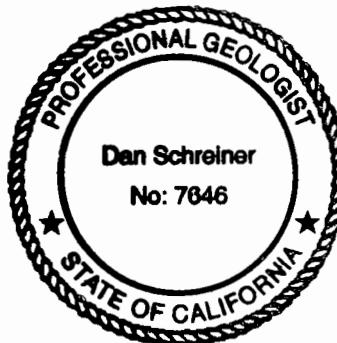
LIMITATIONS

This report presents our understanding of existing conditions at the subject site. The conclusions contained herein are based on the analytical results, and professional judgment in accordance with current standards of professional practice; no other warranty is expressed or implied. SECOR assumes no responsibility for exploratory borings or data reported by other consultants or contractors.

Sincerely,
SECOR International Incorporated



Dan Schreiner, P.G.
Associate Geologist



Attachments:

Figure 1 – Site Plan

Figure 2 – MW-2 TPHg, Benzene and MtBE Groundwater Concentrations

Figure 3 – MW-4 TPHg, Benzene and MtBE Groundwater Concentrations

Table 1 – Ozone Injection System Operating Data

Table 2 – Ozone Injection System Groundwater Monitoring Data

Attachment 1 – TRC's *Quarterly Monitoring Report – October through December 2005*,
dated December 21, 2005

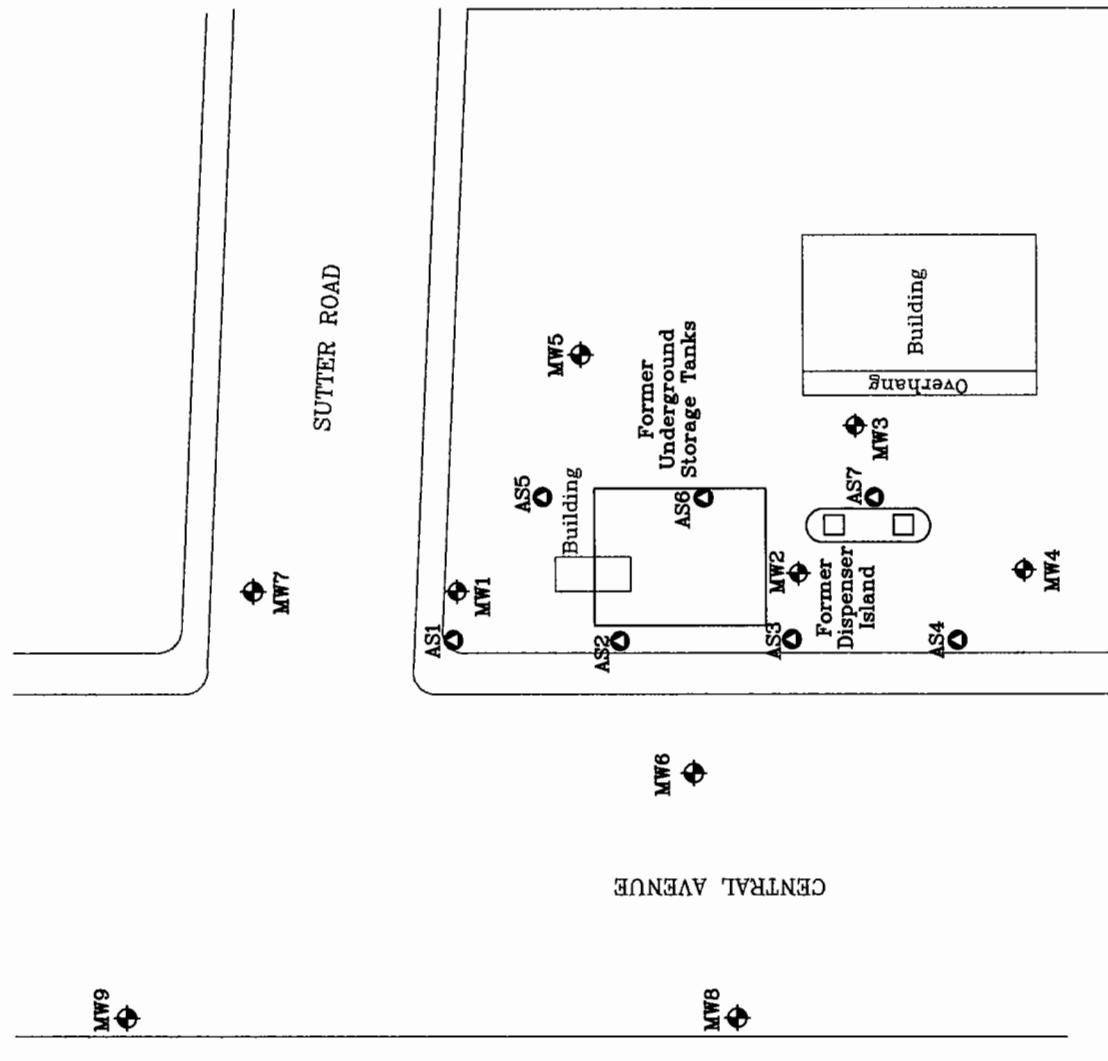
Attachment 2 – Remediation System Field Data Sheets

Attachment 3 – Certified Laboratory Analytical Reports and Chain-of-Custody
Documentation

FIGURES

LEGEND:

- ◆ MW1 GROUNDWATER MONITORING WELL
- AS5 AIR SPARGE WELL



0 60 120
FEET
APPROXIMATE SCALE

REFERENCE: THIS FIGURE IS BASED ON A MAP
PROVIDED BY ERI INC.

FIGURE 1

SITE PLAN

FORMER 76
(CIRCLE K) STORE 01106

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FIGURE 1

Figure 2
MW-2 TPHg, Benzene, and MtBE Groundwater Concentrations
Former Circle K Store No. 01106
1693 Central Avenue, McKinleyville, California

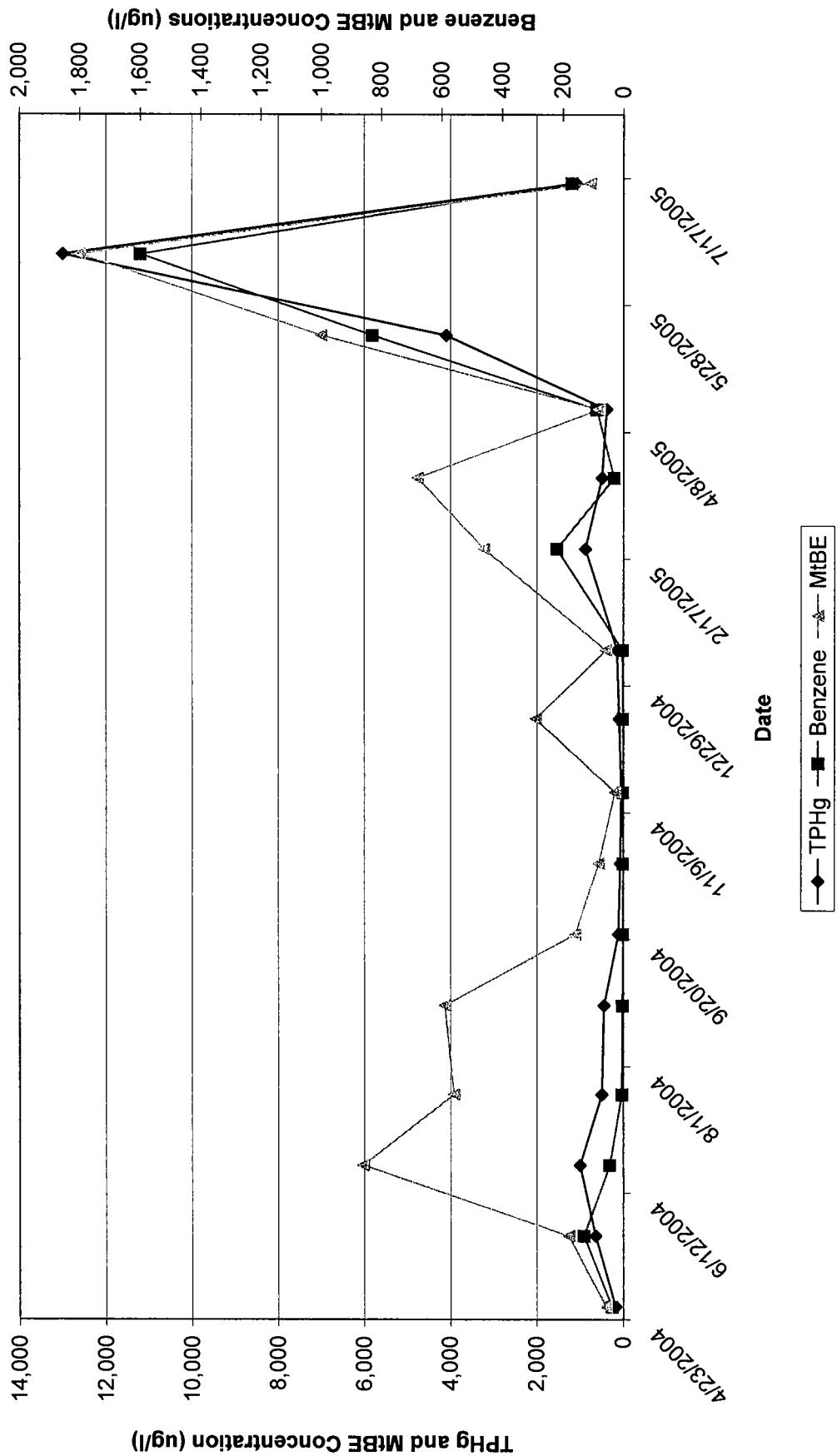
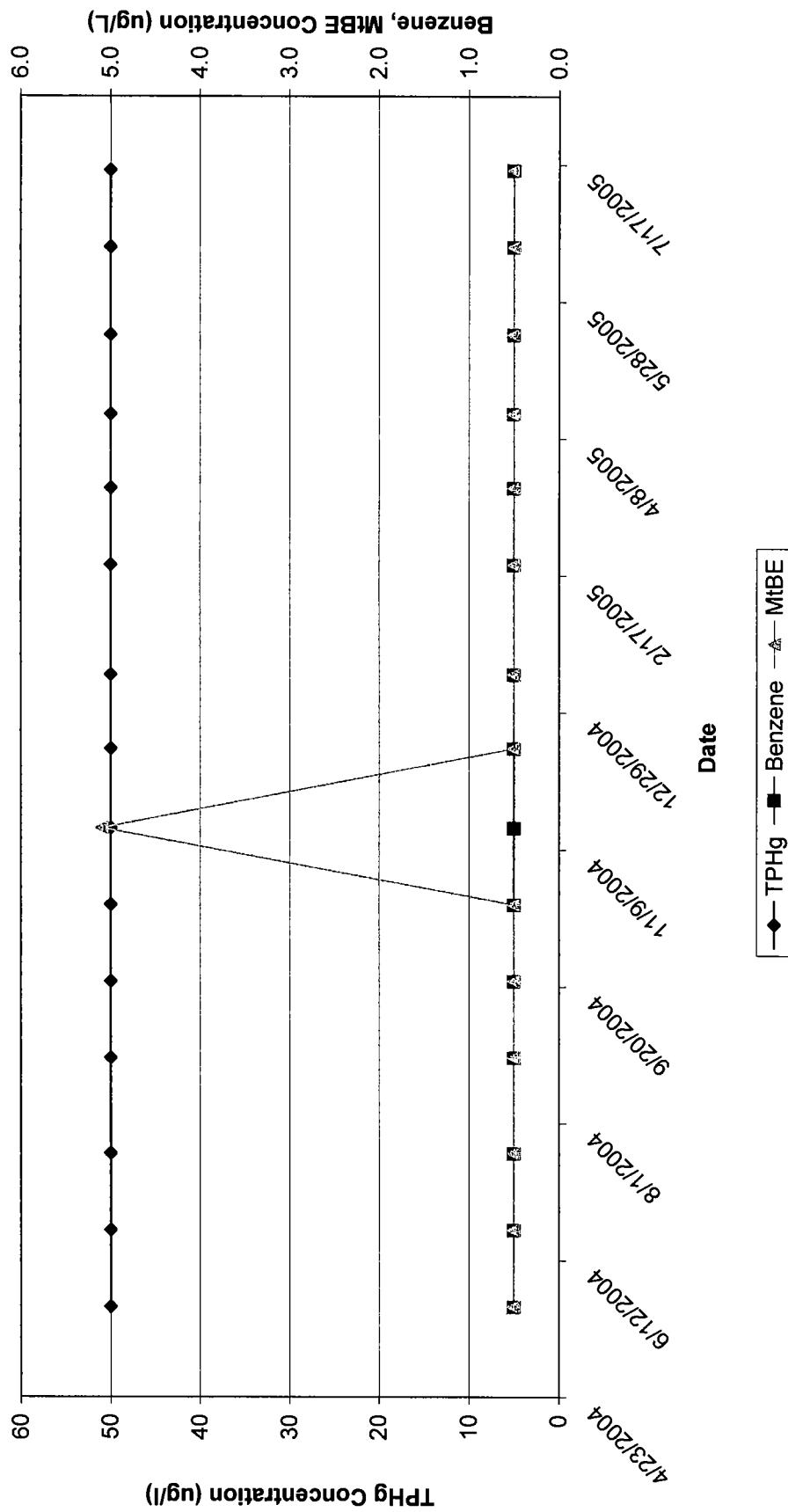


Figure 3
MW-4 TPHg, Benzene, and MtBE Groundwater Concentrations
 Former Circle K Store No. 01106
 1693 Central Avenue, McKinleyville, California



TABLES

Table 1
Ozone Injection System Operating Data
Former Circle K Store No. 01106
1693 Central Avenue, McKinleyville, California

Date	Notes	System Status (On/Off)		Hoummeter Reading	Period Online Factor	Cumulative Online Factor	AS-1		AS-2		AS-3		AS-4		AS-5		AS-6		AS-7	
		Arrival	Departure				Pressure (psi)													
1/17/2004		Off	Off	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1/18/2004		On	On	67	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1/23/2004		On	On	207	0.76	0.76	37	35	32	34	34	32	31							
1/30/2004	a	Off	On	233.06	0.22	0.55	39	37	36	38	35	36	33	32						
2/4/2004		On	On	316.00	0.99	0.64	37	34	33	35	35	36	33	31						
2/27/2004	b	Off	On	409.24	0.24	0.44	-	-	-	-	-	-	-	-						
3/28/2004	b	On	On	754.83	0.76	0.56	-	-	-	-	-	-	-	-						
4/29/2004	b	On	On	1,247.43	0.98	0.66	-	-	-	-	-	-	-	-						
6/1/2004	c	On	On	1,812.92	0.99	0.74	-	-	-	-	-	-	-	-						
6/23/2004	a,b	Off	On	1,963.13	0.41	0.69	-	-	-	-	-	-	-	-						
7/22/2004	d	On	On	2,446.77	0.99	0.74	35	34	30	34	32	31	29	28						
8/25/2004		On	On	2,647.00	0.35	0.68	33	32	29	33	32	29	28	28						
9/22/2004	e	Off	On	3,104.00	0.95	0.71	37	34	32	34	33	32	32	29						
10/20/2004	a	Off	On	3,464.57	0.77	0.72	38	34	31	35	36	32	32	29						
11/17/2004		On	On	3,933.81	1.02	0.74	38	37	33	38	35	33	31	31						
12/16/2004	a	On	On	4,256.42	0.66	0.74	37	38	32	38	35	32	30	30						
1/12/2005	f,g	Off	Off	4,509.00	0.56	0.72	-	-	-	-	-	-	-	-						
2/4/2005	h,i	On	On	-	-	-	-	-	-	-	-	-	-	-						
2/18/2005	j	On	On	4,509.00	-	-	-	-	-	-	-	-	-	-						
2/21/2005	On	On	4,598.00	0.13	0.53	36	34	32	34	32	34	32	31	31						
3/21/2005	k	Off	On	5,142.91	0.93	0.56	40	35	34	36	35	34	33	32						
4/17/2005	l	Off	On	5,191.17	0.09	0.53	25	24	20	22	21	24	20	20						
5/5/2005	l,m	On	On	-	-	-	-	-	-	-	-	-	-	-						
5/16/2005	l,m,n	On	On	5,203.26	0.02	0.50	32	30	30	33	32	30	29	29						
5/20/2005	l,m,n	On	On	-	-	-	-	-	-	-	-	-	-	-						
6/17/2005	l,m	On	On	5,303.00	0.08	0.45	37	36	35	32	33	33	30	30						
7/15/2005	l,m	Off	On	5,311.01	0.01	0.43	35	33	32	35	34	32	30	29						
8/11/2005	o,p	On	On	5,467.00	1.00	0.44	-	-	-	-	-	-	-	-						
8/18/2005	q	Off	Off	-	-	-	-	-	-	-	-	-	-	-						
9/9/2005																				

Reporting Period: Third Quarter 2005 (7/15/2005 to 9/9/2005)

Total Hours Operational: 5,467

Total Pounds Ozone Injected: 49.2

Period Hours Operational: 264

Period Pounds Ozone Injected: 15%

Period Percent Operational: 15%

Period Ozone Injected: 2.4

Definitions:

psi
Pounds per square inch

— Data not available

NA
Not applicable

Notes:
Cycle runs 18 times a day for a total of 1,280 minutes per day, or 87.5% utilization.

a System down due to tripped ozone sensor.

b Bad pressure gauge.

c May system check visit.

d Afterco Pressure Gauge installed in spray cabinet.

e System down due to bad GFI switch. Replaced and restarted.

f System down due to faulty wire.

g Site visit to repair leak at compressor outlet.

h Site visit to repair leak at compressor outlet, SP-5 solenoid, and SP-7 solenoid and to re-program system.

i System reprogrammed to run 10 min. cycles for each well with 18 cycles a day for a total of 1280 min. a day.

j Piston and cylinder replaced and system restarted.

k System down due to tripped breaker. System restarted.

l Plugged #8 solenoid with threaded fitting. Check for leaks, none, left system on.

m SHN field data.

n Site visit for repairs only. No readings taken.

o Installed new compressor; replaced 16 amp breaker with time delay fuse, replaced primary power wires.

p PG&E turned off power to the business the system get it's power from.

Table 2
Ozone Injection System Groundwater Monitoring Data
 Former Circle K Store No. 01106
 1693 Central Avenue, McKinleyville, California

Monitoring Well: MW-2												Monitoring Well: MW-4											
Date	Notes	ORP (mV)	DO (mg/l)	TPHg (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (total) (µg/l)	MtBE (µg/l)	ORP (mV)	DO (mg/l)	TPHg (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (total) (µg/l)	MtBE (µg/l)						
4/28/2004		228	NS	180	38	14	2.1	16	57	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<1.0	<0.50	<1.0	<0.50
5/26/2004		181	NS	640	130	50	9.1	54	180	154	NS	<50	<50	<50	<50	<50	<50	<50	<50	<0.50	<0.50	<1.0	<0.50
6/23/2004		180	NS	1,000	45	12	5.2	11	860	133	NS	<50	<50	<50	<50	<50	<50	<50	<50	<0.50	<0.50	<1.0	<0.50
7/2/2004		205	4.33	<500	<5.0	<5.0	<5.0	<10	560	232	2.94	<50	<50	<50	<50	<50	<50	<50	<50	<0.50	<0.50	<1.0	<0.50
8/25/2004	a	179	NS	450	3.5	<2.5	<2.5	<5.0	590	202	NS	<50	<50	<50	<50	<50	<50	<50	<50	<0.50	<0.50	<1.0	<0.50
9/22/2004	a	163	4.50	120	<0.50	<0.50	<0.50	<1.0	160	180	2.75	<50	<50	<50	<50	<50	<50	<50	<50	<0.50	<0.50	<1.0	<0.50
10/20/2004	b	126	0.56	73	<0.50	<0.50	<0.50	<1.0	82	180	1.98	<50	<50	<50	<50	<50	<50	<50	<50	<0.50	<0.50	<1.0	<0.50
11/17/2004		62	5.87	<50	<0.50	<0.50	<0.50	<1.0	28	119	1.93	<50	<50	<50	<50	<50	<50	<50	<50	<0.50	<0.50	<1.0	5.1
12/16/2004		152	2.36	<100	<1.0	<1.0	<1.0	<2.0	290	173	1.93	<50	<50	<50	<50	<50	<50	<50	<50	<0.50	<0.50	<1.0	<0.50
1/12/2005		151	6.36	150	3.6	3.1	1.8	5.1	58	160	2.17	<50	<50	<50	<50	<50	<50	<50	<50	<0.50	<0.50	<1.0	<0.50
2/21/2005		90	3.80	880	220	88	11	100	460	99	2.97	<50	<50	<50	<50	<50	<50	<50	<50	<0.50	<0.50	<1.0	<0.50
3/21/2005		46	5.16	500	31	6.9	<0.50	14	680	-15	4.08	<50	<50	<50	<50	<50	<50	<50	<50	<0.50	<0.50	<1.0	<0.50
4/17/2005	d	60	6.70	390	88	16	2.3	24	80	13	5.34	<50	<50	<50	<50	<50	<50	<50	<50	<0.50	<0.50	<1.0	<0.50
5/16/2005		143	5.91	4,100	830	140	36	260	1,000	135	4.90	<50	<50	<50	<50	<50	<50	<50	<50	<0.50	<0.50	<1.0	<0.50
6/17/2005		239	2.81	13,000	1,600	1,200	250	1,100	1,800	244	4.56	<50	<50	<50	<50	<50	<50	<50	<50	<0.50	<0.50	<1.0	<0.50
7/15/2005	e	212	3.62	1,100	170	170	23	140	110	206	4.65	<50	<50	<50	<50	<50	<50	<50	<50	<0.50	<0.50	<1.0	<0.50

Definitions:

Total petroleum hydrocarbons as gasoline

Methyl tert-butyl ether

MARCH 1961

micrograms per liter

milligrams per liter

millivolts

Digitized by srujanika@gmail.com

Oil Sample

Notes:

2

MW-2 TPH concentration reported reflects individual or

MVV-21 may confer similar reported effects than Muwai 01 due to nonidentical mechanisms.

discrete unidentified peaks not matching a

Data not available at time of reporting.

MW-4: MS/MSD spike recoveries were ab-

Monthly sampling discontinued at the end of 1983.

MORALITY SAMPLING DISCREPANCY ALIASES LEAD

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I:\ConocoPhillips\Retail Sites\1106\O&M\1106 RM&R Ozone Sparge Workbook.xls

**ATTACHMENT 1
TRC'S QUARTERLY MONITORING REPORT
OCTOBER THROUGH DECEMBER 2005**

Fourth Quarter 2005 Quarterly Summary and
Remediation Status Report
Former 76 Station No. 1106
1693 Central Avenue
McKinleyville, California
SECOR Project No.: 77CP.60009.01.1106

SEE

TRC

QMR

**ATTACHMENT 2
REMEDIATION SYSTEM FIELD DATA SHEETS**

Fourth Quarter 2005 Quarterly Summary and
Remediation Status Report

Former 76 Station No. 1106
1693 Central Avenue
McKinleyville, California
SECOR Project No.: 77CP.60009.01.1106

Field Data Sheet
Ozone Sparge System

ConocoPhillips Site # 1106
1693 Central Ave.
McKinleyville, California

Requested By: Kimber Collins
Lab: STL

1) After arriving on-site, review work order, HASP, and JSA within HASP on Ozone Gas Hazards.

2) Prior to conducting field work, insert ozone sensitive paper into badge and attach to shirt or coat.
Make sure ozone meter has been warmed up. Warm up times can be greater than 1 hour.

Refer to second page of work order and fill out requested information.

3) Monitor and document ozone readings outside of ozone compound and ozone panel.

Since ozone is heavier than air, be sure to monitor for ozone at low points in compound and panel.

If positive ozone readings are encountered, call project manager to discuss possible solutions.

4) If no positive ozone readings are found, inspect fittings and tubing connection for signs of wear or damage.

Use a tedar bag to collect vapor sample from sample port on double containment piping for ozone injection line.

Due to meter sensitivity, push vapor out of tedar bag and carefully check for ozone in vapor sample.

DO NOT check ozone concentration directly from tedar bag, high ozone concentrations can damage meter.

5) Using meter, Monitor for Ozone along the piping runs, at top of each injection well lid, and within each well box.

Set-up traffic delineators to define work area around each injection well prior to collecting ozone readings.

If positive ozone readings are encountered, call project manager to discuss possible solutions.

6) Before leaving the site check your Ozone badge and note badge color on second page of work order.

7) Call into the Sacramento office before you leave the site.

8) **Forward field notes and equipment rental forms to Kimber Collins in Sacramento.**

EQUIPMENT NEEDED:

Site Safety Plan

O3 Meter and Ozone Badge

ORP and DO meter

1/2", 9/16", and 15/16" sockets, pliers, and other misc. tools

Traffic Delineators

Nitrile gloves, voas, COCs, drum labels, etc.

Field Data Sheet Ozone Sparge System

**ConocoPhillips Site # 1106
1693 Central Ave.
McKinleyville, California**

Requested By: Kimber Collins
Lab: STL

Field Data Sheet Ozone Sparge System

**ConocoPhillips Site # 1106
1693 Central Ave.
McKinleyville, California**

Requested By: Kimber Collins
Lab: STL

System Maintenance	Frequency	Date Performed
Check integrity of All Hoses, Fittings, Piping, Valves	Monthly	
Measure Blower Running Amperage	Monthly	
Inspect electrical fittings and tighten as needed	Monthly	
Gross particle filter-visualy inspect	Monthly	
Gross particle filter-replace as necessary	As-Needed	
Check controller operation	Monthly	
Adjust controller program	As-Needed	
Check flow and pressure on assemblies (system and wells)	Monthly	
Take ozone readings at compound and well boxes	Monthly	
Check wellhead connections	Monthly	
Check/test all safety override systems	Monthly	
Sparge blower-repair as necessary	As-Needed	
Sparge blower-replace as necessary	As-Needed	

**ATTACHMENT 3
CERTIFIED LABORATORY ANALYTICAL REPORTS AND
CHAIN-OF-CUSTODY DOCUMENTATION**

Fourth Quarter 2005 Quarterly Summary and
Remediation Status Report
Former 76 Station No. 1106
1693 Central Avenue
McKinleyville, California
SECOR Project No.: 77CP.60009.01.1106

SECOR-Sacramento

July 29, 2005

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670

Attn.: Kimber Collins

Project#: 77CP.60004.01.1106

Project: Conoco Philips Site #1106

Site: 1693 Central Ave., McKinleyville, CA

Attached is our report for your samples received on 07/19/2005 09:10

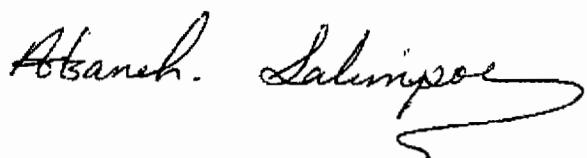
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 09/02/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: asalimpour@stl-inc.com

Sincerely,



Afsaneh Salimpour
Project Manager

Gas/BTEX/MTBE by 8260B

SECOR-Sacramento

Attn.: Kimber Collins

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.60004.01.1106
Conoco Philips Site #1106

Received: 07/19/2005 09:10

Site: 1693 Central Ave., McKinleyville, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-2	07/15/2005 14:15	Water	1
MW-4	07/15/2005 13:55	Water	2

Gas/BTEX/MTBE by 8260B

SECOR-Sacramento

Attn.: Kimber Collins

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.60004.01.1106
Conoco Philips Site #1106

Received: 07/19/2005 09:10

Site: 1693 Central Ave., McKinleyville, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-2	Lab ID:	2005-07-0482 - 1
Sampled:	07/15/2005 14:15	Extracted:	7/22/2005 18:44 7/28/2005 01:02
Matrix:	Water	QC Batch#:	2005/07/22-1A.07 2005/07/27-2A.64

Analysis Flag: L2, pH: <2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	1100	100	ug/L	2.00	07/28/2005 01:02	
Benzene	170	0.50	ug/L	1.00	07/22/2005 18:44	
Toluene	170	0.50	ug/L	1.00	07/22/2005 18:44	
Ethylbenzene	23	0.50	ug/L	1.00	07/22/2005 18:44	
Total xylenes	140	1.0	ug/L	1.00	07/22/2005 18:44	
Methyl tert-butyl ether (MTBE)	110	1.0	ug/L	2.00	07/28/2005 01:02	
Surrogate(s)						
1,2-Dichloroethane-d4	139.5	73-130	%	2.00	07/28/2005 01:02	S5
1,2-Dichloroethane-d4	88.3	73-130	%	1.00	07/22/2005 18:44	
Toluene-d8	84.8	81-114	%	2.00	07/28/2005 01:02	
Toluene-d8	96.0	81-114	%	1.00	07/22/2005 18:44	

Gas/BTEX/MTBE by 8260B

SECCOR-Sacramento

Attn.: Kimber Collins

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.60004.01.1106
Conoco Philips Site #1106

Received: 07/19/2005 09:10

Site: 1693 Central Ave., McKinleyville, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-4	Lab ID:	2005-07-0482 - 2
Sampled:	07/15/2005 13:55	Extracted:	7/24/2005 00:27
Matrix:	Water	QC Batch#:	2005/07/23-2C.68
pH:	<2		

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	1.00	07/24/2005 00:27	
Benzene	ND	0.50	ug/L	1.00	07/24/2005 00:27	
Toluene	ND	0.50	ug/L	1.00	07/24/2005 00:27	
Ethylbenzene	ND	0.50	ug/L	1.00	07/24/2005 00:27	
Total xylenes	ND	1.0	ug/L	1.00	07/24/2005 00:27	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	07/24/2005 00:27	
Surrogate(s)						
1,2-Dichloroethane-d4	103.3	73-130	%	1.00	07/24/2005 00:27	
Toluene-d8	102.9	81-114	%	1.00	07/24/2005 00:27	

Gas/BTEX/MTBE by 8260B

SECOR-Sacramento

Attn.: Kimber Collins

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.60004.01.1106
Conoco Philips Site #1106

Received: 07/19/2005 09:10

Site: 1693 Central Ave., McKinleyville, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank**Water****QC Batch # 2005/07/22-1A.07**

MB: 2005/07/22-1A.07-003

Date Extracted: 07/22/2005 14:31

Compound	Conc.	RL	Unit	Analyzed	Flag
Benzene	ND	0.5	ug/L	07/22/2005 14:31	
Toluene	ND	0.5	ug/L	07/22/2005 14:31	
Ethylbenzene	ND	0.5	ug/L	07/22/2005 14:31	
Total xylenes	ND	1.0	ug/L	07/22/2005 14:31	
Surrogates(s)					
1,2-Dichloroethane-d4	92.2	73-130	%	07/22/2005 14:31	
Toluene-d8	96.4	81-114	%	07/22/2005 14:31	

Gas/BTEX/MTBE by 8260B

SECOR-Sacramento

Attn.: Kimber Collins

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.60004.01.1106
Conoco Philips Site #1106

Received: 07/19/2005 09:10

Site: 1693 Central Ave., McKinleyville, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank**Water****QC Batch # 2005/07/23-2C.68**

MB: 2005/07/23-2C.68-047

Date Extracted: 07/23/2005 18:47

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	07/23/2005 18:47	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	07/23/2005 18:47	
Benzene	ND	0.5	ug/L	07/23/2005 18:47	
Toluene	ND	0.5	ug/L	07/23/2005 18:47	
Ethylbenzene	ND	0.5	ug/L	07/23/2005 18:47	
Total xylenes	ND	1.0	ug/L	07/23/2005 18:47	
Surrogates(s)					
1,2-Dichloroethane-d4	105.9	73-130	%	07/23/2005 18:47	
Toluene-d8	100.1	81-114	%	07/23/2005 18:47	

Gas/BTEX/MTBE by 8260B

SECOR-Sacramento

Attn.: Kimber Collins

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.60004.01.1106
Conoco Philips Site #1106

Received: 07/19/2005 09:10

Site: 1693 Central Ave., McKinleyville, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank**Water****QC Batch # 2005/07/27-2A.64**

MB: 2005/07/27-2A.64-041

Date Extracted: 07/27/2005 19:41

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	07/27/2005 19:41	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	07/27/2005 19:41	
Benzene	ND	0.5	ug/L	07/27/2005 19:41	
Toluene	ND	0.5	ug/L	07/27/2005 19:41	
Ethylbenzene	ND	0.5	ug/L	07/27/2005 19:41	
Total xylenes	ND	1.0	ug/L	07/27/2005 19:41	
Surrogates(s)					
1,2-Dichloroethane-d4	109.8	73-130	%	07/27/2005 19:41	
Toluene-d8	86.0	81-114	%	07/27/2005 19:41	

Gas/BTEX/MTBE by 8260B

SECOR-Sacramento

Attn.: Kimber Collins

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.60004.01.1106
Conoco Philips Site #1106

Received: 07/19/2005 09:10

Site: 1693 Central Ave., McKinleyville, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike**Water****QC Batch # 2005/07/22-1A.07**

LCS 2005/07/22-1A.07-002
LCSD

Extracted: 07/22/2005

Analyzed: 07/22/2005 14:02

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	21.8		25	87.2			69-129	20		
Toluene	22.5		25	90.0			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	478		500	95.6			73-130			
Toluene-d8	489		500	97.8			81-114			

Gas/BTEX/MTBE by 8260B

SECOR-Sacramento

Attn.: Kimber Collins

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.60004.01.1106
Conoco Philips Site #1106

Received: 07/19/2005 09:10

Site: 1693 Central Ave., McKinleyville, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike**Water****QC Batch # 2005/07/23-2C.68**

LCS 2005/07/23-2C.68-021
LCSD 2005/07/23-2C.68-048

Extracted: 07/23/2005
Extracted: 07/24/2005

Analyzed: 07/23/2005 18:21
Analyzed: 07/24/2005 03:53

Compound	Conc.		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	22.0	23.1	25	88.0	92.4	4.9	65-165	20		
Benzene	22.9	23.5	25	91.6	94.0	2.6	69-129	20		
Toluene	24.1	24.1	25	96.4	96.4	0.0	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	426	427	500	85.2	85.4		73-130			
Toluene-d8	521	520	500	104.2	104.0		81-114			

Gas/BTEX/MTBE by 8260B

SECOR-Sacramento

Attn.: Kimber Collins

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.60004.01.1106
Conoco Philips Site #1106

Received: 07/19/2005 09:10

Site: 1693 Central Ave., McKinleyville, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike**Water****QC Batch # 2005/07/27-2A.64**

LCS 2005/07/27-2A.64-016
LCSD 2005/07/27-2A.64-014

Extracted: 07/27/2005
Extracted: 07/27/2005

Analyzed: 07/27/2005 19:16
Analyzed: 07/27/2005 20:14

Compound	Conc.		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	28.8	23.6	25	115.2	94.4	19.8	65-165	20		
Benzene	26.8	24.9	25	107.2	99.6	7.4	69-129	20		
Toluene	26.1	25.4	25	104.4	101.6	2.7	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	530	511	500	106.0	102.2		73-130			
Toluene-d8	416	428	500	83.2	85.6		81-114			

Gas/BTEX/MTBE by 8260B

SECOR-Sacramento

Attn.: Kimber Collins

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.60004.01.1106
Conoco Philips Site #1106

Received: 07/19/2005 09:10

Site: 1693 Central Ave., McKinleyville, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2005/07/22-1A.07

MS/MSD

Lab ID: 2005-07-0381 - 003

MS: 2005/07/22-1A.07-007

Extracted: 07/22/2005

Analyzed: 07/22/2005 17:45

MSD: 2005/07/22-1A.07-008

Extracted: 07/22/2005

Analyzed: 07/22/2005 18:15

Dilution: 1.00

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample		ug/L	MS	MSD	RPD	Rec.	RPD	MS
Benzene	41.8	33.8	13	25	115.2	83.2	32.3	69-129	20		R1
Toluene	32.4	24.1	ND	25	129.6	96.4	29.4	70-130	20		R1
Surrogate(s)											
1,2-Dichloroethane-d4	467	450		500	93.4	90.0		73-130			
Toluene-d8	598	441		500	119.6	88.2		81-114		S7	

Gas/BTEX/MTBE by 8260B

SECOR-Sacramento

Attn.: Kimber Collins

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.60004.01.1106
Conoco Philips Site #1106

Received: 07/19/2005 09:10

Site: 1693 Central Ave., McKinleyville, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)**Water****QC Batch # 2005/07/23-2C.68**

MS/MSD

Lab ID: 2005-07-0388 - 001

MS: 2005/07/23-2C.68-042

Extracted: 07/23/2005

Analyzed: 07/23/2005 19:42

MSD: 2005/07/23-2C.68-008

Extracted: 07/23/2005

Dilution: 20.00

Analyzed: 07/23/2005 20:08

Dilution: 20.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	2180	2110	1570	500	122.0	108.0	12.2	65-165	20		
Benzene	504	541	0.572	500	100.7	108.1	7.1	69-129	20		
Toluene	515	553	1.81	500	102.6	110.2	7.1	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	431	412		500	86.2	82.4		73-130			
Toluene-d8	503	534		500	100.6	106.8		81-114			

Gas/BTEX/MTBE by 8260B

SECOR-Sacramento

Attn.: Kimber Collins

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.60004.01.1106
Conoco Philips Site #1106

Received: 07/19/2005 09:10

Site: 1693 Central Ave., McKinleyville, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)**Water****QC Batch # 2005/07/27-2A.64**

MS/MSD

Lab ID: 2005-07-0594 - 004

MS: 2005/07/27-2A.64-042

Extracted: 07/27/2005

Analyzed: 07/27/2005 21:28

MSD: 2005/07/27-2A.64-043

Extracted: 07/27/2005

Analyzed: 07/27/2005 21:40

Dilution: 1.00

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample		ug/L	MS	MSD	RPD	Rec.	RPD	MS
Methyl tert-butyl ether	28.6	30.9	ND	25	114.4	123.6	7.7	65-165	20		
Benzene	26.7	28.9	ND	25	106.8	115.6	7.9	69-129	20		
Toluene	27.0	31.1	ND	25	108.0	124.4	14.1	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	573	601		500	114.6	120.2		73-130			
Toluene-d8	417	477		500	83.4	95.4		81-114			

Gas/BTEX/MTBE by 8260B

SECOR-Sacramento

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Project: 77CP.60004.01.1106
Conoco Philips Site #1106

Received: 07/19/2005 09:10

Site: 1693 Central Ave., McKinleyville, CA

Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present
in the sample.

Result Flag

R1

Analyte RPD was out of QC limits.

S5

Surrogate recoveries higher than acceptance limits.
Matrix interference suspected

S7

Surrogate recoveries higher than acceptance limits.

STL-San Francisco

ConocoPhillips Chain Of Custody Record

ConocoPhillips Site Manager:

1220 Quarry Lane

Pleasanton, CA 94566

(925) 484-1919 (925) 484-0966 fax

INVOICE REMITTANCE ADDRESS:	
CONOCOPHILLIPS Attn: Deb Hutchinson 1511 South Hutchinson, Suite 200 Apt. 704	
SAMPLING COMPANY: SECOR International Inc.	Vessel Name ID: 1106
ADDRESS: 3017 Kilgore Rd Suite 100, Rancho Cordova, CA 95670	SITE ADDRESS (Street and City): 1603 Central Ave., McKinleyville, CA
PROJECT CONTACT (Reader or PDF Report): Kimber Collins, Casey Sanders TELEPHONE: (916) 861-0400 FAX: (916) 861-0410 E-MAIL: kcollins@secor.com, cbsanders@secor.com	PDF DELIVERABLE TO (IP or Designee): Kimber Collins, Gracie Sims and Casey Sanders
SAMPLER NAME(S) (Name): 77CP.60004.01.1106	PHONE NO.: (916) 861-0400 Ext. 295 EMAIL: kcollins@secor.com LAB USE ONLY: <input checked="" type="checkbox"/>

ConocoPhillips Work Order Number:

1103SEC700 Date: 7/15/05
ConocoPhillips Cost Object: PAGE: 1 of 1
WNO. 1103

2005-07-0482

TURNAROUND TIME (CALENDAR DAYS): <input checked="" type="checkbox"/> 14 DAYS <input type="checkbox"/> 7 DAYS <input type="checkbox"/> 72 HOURS <input type="checkbox"/> 48 HOURS <input type="checkbox"/> 24 HOURS <input type="checkbox"/> LESS THAN 24 HOURS	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes				
SPECIAL INSTRUCTIONS OR NOTES: Please send EDI/PDF deliverable to kcollins@secor.com, gsims@secor.com, and cbsanders@secor.com	TEMPERATURE ON RECEIPT C°: 13				
* Field Point name only required if different from Sample ID					
SAMPLING					
Sample Identification/Field Point ID#	Name*	Date	Time	Matrix	No. of CMT
MW-2	<i>1/265 MW-2</i>			Water	3
MW-4	<i>1/265</i>			Water	3

(Received and by: (Signature)
Deb H
Received and by: (Signature)

Received by: (Signature)
John M. Sander

Date: 7/19/05 Time:

Date: 7/19/05 Time:

Received and by: (Signature)

Received by: (Signature)

Date:

Date: